

# IT490K

## 1983 SERVICE DATA

<b>MODEL - IBM I.D. NUMBER</b>	IT490K	26A
Initial Engine Number / Frame Number	26A-000101 / 26A-000101	
Fuel Type/Total Fuel Tank Capacity/Reserve Cap.	Premium / 13.5 Lit. / $\emptyset$	

<b>ENGINE TYPE</b>	2-Stroke, Reed Valve
Bore/Stroke/Number Cylinders/Displacement	87mm / 82mm / 1 / 487cc
Compression Ratio/Compression Pressure Min~Max	6.7:1 / NA
Piston Skirt Clearance New / Max	0.070 ~ 0.075mm / 0.10mm
Ring End Gap Top / 2nd / 3rd	0.35 ~ 0.50mm / 0.35 ~ 0.50mm / $\emptyset$
Valve Clearance (Cold) Intake / Exhaust	$\emptyset$
Oiling System	Premix 24:1 Using Yamalube R*
Capacity: Dry	$\emptyset$
Oil and Filter Change	$\emptyset$
Oil Change Only	$\emptyset$
Lubricant: Temp. Above 5°C (40°F)	Yamalube R*
Temp. Below 15°C (60°F)	Yamalube R*
Cooling System / Capacity	Air / $\emptyset$
Coolant Type / Mixing Ratio	$\emptyset$ / $\emptyset$

<b>AUTOLUBE - Min Stroke / Color Code</b>	$\emptyset$
Minimum Output @ 200 Cycles	$\emptyset$
Maximum Output @ 200 Cycles	$\emptyset$

<b>CARBURETOR - Manufacturer / Type / I.D. Number</b>	Mikuni / VM38SS / 4V6-10
Main Jet / Pilot Jet / Pilot Screw (Turns Out)	390 / 40 / 1-3/8
Needle Jet / Jet Needle-Clip Position	Q-2 / 6F39-4
Slide Cutaway	2.0
Float Level / Fuel Level	27mm / NA
Idle rpm	Rider's Preference
Max CO* / Max HC* / Set CO	$\emptyset$

<b>SUSPENSION</b>	
Front: Inner Tube Diameter	43mm
Oil Type / Level / Qty	10 Wt. Fork Oil* / 170mm / 578cc
Gas Pressure Min ~ Max / Standard	0 ~ 1.2 kg/cm <sup>2</sup> / 0 kg/cm <sup>2</sup>
Spring Length Standard	529mm
Rear: Gas Pressure Min ~ Max / Standard	12 ~ 20 kg/cm <sup>2</sup> / 15 kg/cm <sup>2</sup>
Minimum Brake Lining Thickness Front / Rear	2.0mm / 2.0mm
Tire Size (Nominal Pressure) Front / Rear	3.00-21 (Variable) / 150/80-18 (Variable)

<b>TRANSMISSION - Oil Type / Qty Change / Qty Dry</b>	SAE 10W30 SE or SF / 750cc / 800cc
Secondary Drive Type / Teeth / Chain	Chain / 44-14 / DK520VS110L
Middle Gear Case Capacity	$\emptyset$
Final Gear Case Capacity	$\emptyset$
Gear Case Lubricant	$\emptyset$

SERVICE COPY	SER MGR	MECH	MECH	MECH	BINDER
OFFICE COPY	GEN MGR	SALES	PARTS	BINDER	PAGE 1 OF 2

CHARGING SYSTEM	∅
Battery: Model / Specific Gravity / Charge Rate	∅
Maximum Output	∅
Field Coil Color Code / Ω	∅
Stator Coil Color Code / Ω	∅
Charge Coil Color Code / Ω	∅

IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	1.9 ~ 2.1mm
Spark Plug Type	Champion N-3C
Spark Plug Gap / Torque / Cap Ω	0.7 ~ 0.8mm / 2.0 m·kg / 0Ω
Point Gap / Condenser Capacitance	∅
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0Ω ± 15% / 5.9KΩ ± 15%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / 12.4Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Blk / 420Ω ± 10%

LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V-3W / ∅
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.48Ω ± 10%

TORQUE VALUES	
Front Axle Nut	M14: 6.0 m·kg
Front Axle Holder Nut	M8: 2.0 m·kg
Rear Axle Nut	M18: 10.0 m·kg
Rear Axle Pinch Bolt	∅
Clutch Nut	M20: 7.5 m·kg
Drain Plug	M12: 2.0 m·kg
Flywheel Nut	M12: 8.5 m·kg
Cylinder Head Cover	∅
Cylinder Head:	M8: 2.0 m·kg
Engine Mounting Bolts: Upper Bracket	M10: 5.5 m·kg
Upper	M8: 3.0 m·kg
Lower	M8: 3.0 m·kg

∅ = Does Not Apply To This Model  
 NA = Information Not Available

\*Available From Yamaha Parts Distributors Inc.  
 \*For Diagnostic Use Only

#### SERVICE LITERATURE

PUBLICATION	PART NUMBER	REMARKS
Owner's/Service Manual Assembly Manual	LIT-11626-03-72 LIT-11666-03-72	Comb. with IT250K Supp. to YZ/IT Basic Assembly Manual (03-31)